



OIPE

## RAW SEQUENCE LISTING

DATE: 09/26/2002

PATENT APPLICATION: US/10/086,177A

TIME: 14:57:23

Input Set : D:\SEQLIST.txt

Output Set: N:\CRF4\09252002\J086177A.raw

```

3 <110> APPLICANT: Tudan, Christopher R.
4      Merzouk, Ahmed
5      Saxena, Geeta
6      Eaves, Connie J.
7      Cashman, Johanne
8      Clark-Lewis, Ian
9      Salari, Hassan
11 <120> TITLE OF INVENTION: CXCR Agonist Treatment of Hematopoietic
12      Cells
14 <130> FILE REFERENCE: SMAR-012CIP
16 <140> CURRENT APPLICATION NUMBER: 10/086,177A
17 <141> CURRENT FILING DATE: 2002-02-26
19 <150> PRIOR APPLICATION NUMBER: 09/835,107
20 <151> PRIOR FILING DATE: 2001-04-12
22 <150> PRIOR APPLICATION NUMBER: 60/232,425
23 <151> PRIOR FILING DATE: 2000-09-14
25 <150> PRIOR APPLICATION NUMBER: CA 2,305,036
26 <151> PRIOR FILING DATE: 2000-04-12
28 <150> PRIOR APPLICATION NUMBER: CA 2,335,109
29 <151> PRIOR FILING DATE: 2001-02-23
31 <160> NUMBER OF SEQ ID NOS: 34
33 <170> SOFTWARE: FastSEQ for Windows Version 4.0
35 <210> SEQ ID NO: 1
36 <211> LENGTH: 67
37 <212> TYPE: PRT
38 <213> ORGANISM: Homo sapiens
40 <400> SEQUENCE: 1
41 Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys Arg Phe Phe Glu Ser
42 1          5          10          15
43 His Val Ala Arg Ala Asn Val Lys His Leu Lys Ile Leu Asn Thr Pro
44          20          25          30
45 Asn Cys Ala Leu Gln Ile Val Ala Arg Leu Lys Asn Asn Asn Arg Gln
46          35          40          45
47 Val Cys Ile Asp Pro Lys Leu Lys Trp Ile Gln Glu Tyr Leu Glu Lys
48          50          55          60
49 Ala Leu Asn
50 65
53 <210> SEQ ID NO: 2
54 <211> LENGTH: 93
55 <212> TYPE: PRT
56 <213> ORGANISM: Homo sapiens
58 <400> SEQUENCE: 2
59 Met Asn Ala Lys Val Val Val Val Leu Val Leu Val Leu Thr Ala Leu

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/086,177A

DATE: 09/26/2002

TIME: 14:57:23

Input Set : D:\SEQLIST.txt

Output Set: N:\CRF4\09252002\J086177A.raw

```

60 1          5          10          15
61 Cys Leu Ser Asp Gly Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys
62          20          25          30
63 Arg Phe Phe Glu Ser His Val Ala Arg Ala Asn Val Lys His Leu Lys
64          35          40          45
65 Ile Leu Asn Thr Pro Asn Cys Ala Leu Gln Ile Val Ala Arg Leu Lys
66          50          55          60
67 Asn Asn Asn Arg Gln Val Cys Ile Asp Pro Lys Leu Lys Trp Ile Gln
68 65          70          75          80
69 Glu Tyr Leu Glu Lys Ala Leu Asn Lys Arg Phe Lys Met
70          85          90

```

73 &lt;210&gt; SEQ ID NO: 3

74 &lt;211&gt; LENGTH: 93

75 &lt;212&gt; TYPE: PRT

76 &lt;213&gt; ORGANISM: Homo sapiens

78 &lt;400&gt; SEQUENCE: 3

```

79 Met Asn Ala Lys Val Val Val Val Leu Val Leu Val Leu Thr Ala Leu
80 1          5          10          15
81 Cys Leu Ser Asp Gly Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys
82          20          25          30
83 Arg Phe Phe Glu Ser His Val Ala Arg Ala Asn Val Lys His Leu Lys
84          35          40          45
85 Ile Leu Asn Thr Pro Asn Cys Ala Leu Gln Ile Val Ala Arg Leu Lys
86          50          55          60
87 Asn Asn Asn Arg Gln Val Cys Ile Asp Pro Lys Leu Lys Trp Ile Gln
88 65          70          75          80
89 Glu Tyr Leu Glu Lys Ala Leu Asn Lys Arg Phe Lys Met
90          85          90

```

93 &lt;210&gt; SEQ ID NO: 4

94 &lt;211&gt; LENGTH: 17

95 &lt;212&gt; TYPE: PRT

96 &lt;213&gt; ORGANISM: Artificial Sequence

98 &lt;220&gt; FEATURE:

99 &lt;223&gt; OTHER INFORMATION: Synthesized in Laboratory: SDF-1 (1-17): or

100 CICE9902

102 &lt;400&gt; SEQUENCE: 4

```

103 Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys Arg Phe Phe Glu Ser
104 1          5          10          15
105 His

```

109 &lt;210&gt; SEQ ID NO: 5

110 &lt;211&gt; LENGTH: 6

111 &lt;212&gt; TYPE: PRT

112 &lt;213&gt; ORGANISM: Artificial Sequence

114 &lt;220&gt; FEATURE:

115 &lt;223&gt; OTHER INFORMATION: Synthesized in Laboratory

117 &lt;400&gt; SEQUENCE: 5

118 Arg Phe Phe Glu Ser His

119 1 5

122 &lt;210&gt; SEQ ID NO: 6

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/086,177A

DATE: 09/26/2002

TIME: 14:57:23

Input Set : D:\SEQLIST.txt

Output Set: N:\CRF4\09252002\J086177A.raw

```

123 <211> LENGTH: 9
124 <212> TYPE: PRT
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Synthesized in Laboratory
130 <400> SEQUENCE: 6
131 Lys Pro Val Ser Leu Ser Tyr Arg Cys
132 1 5
135 <210> SEQ ID NO: 7
136 <211> LENGTH: 9
137 <212> TYPE: PRT
138 <213> ORGANISM: Artificial Sequence
140 <220> FEATURE:
141 <223> OTHER INFORMATION: Synthesized in Laboratory: SDF-1 (1-9)
142 2-C9/C9-cysteine dimer: or CTCE9901
144 <400> SEQUENCE: 7
145 Lys Pro Val Ser Leu Ser Tyr Arg Cys
146 1 5
149 <210> SEQ ID NO: 8
150 <211> LENGTH: 10
151 <212> TYPE: PRT
152 <213> ORGANISM: Artificial Sequence
154 <220> FEATURE:
155 <223> OTHER INFORMATION: Synthesized in Laboratory
W--> 157 <221> NAME/KEY: VARIANT
158 <222> LOCATION: 10
159 <223> OTHER INFORMATION: Xaa = Any Amino Acid
W--> 161 <221> VARIANT
162 <222> LOCATION: 10
163 <223> OTHER INFORMATION: Xaa = Any Amino Acid
W--> 165 <400> 8
W--> 166 Lys Pro Val Ser Leu Ser Tyr Arg Cys Xaa
167 1 5 10
170 <210> SEQ ID NO: 9
171 <211> LENGTH: 9
172 <212> TYPE: PRT
173 <213> ORGANISM: Artificial Sequence
175 <220> FEATURE:
176 <223> OTHER INFORMATION: Synthesized in Laboratory
178 <400> SEQUENCE: 9
179 Lys Pro Val Ser Leu Ser Tyr Arg Cys
180 1 5
183 <210> SEQ ID NO: 10
184 <211> LENGTH: 9
185 <212> TYPE: PRT
186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: Synthesized in Laboratory
W--> 191 <221> NAME/KEY: VARIANT

```

## RAW SEQUENCE LISTING

DATE: 09/26/2002

PATENT APPLICATION: US/10/086,177A

TIME: 14:57:23

Input Set : D:\SEQLIST.txt

Output Set: N:\CRF4\09252002\J086177A.raw

```

192 <222> LOCATION: 9
193 <223> OTHER INFORMATION: Xaa = Any Amino Acid
W--> 195 <221> VARIANT
196 <222> LOCATION: 9
197 <223> OTHER INFORMATION: Xaa = Any Amino Acid
W--> 199 <400> 10
W--> 200 Lys Pro Val Ser Leu Ser Tyr Arg Xaa
201 1 5
204 <210> SEQ ID NO: 11
205 <211> LENGTH: 8
206 <212> TYPE: PRT
207 <213> ORGANISM: Artificial Sequence
209 <220> FEATURE:
210 <223> OTHER INFORMATION: Synthesized in Laboratory
212 <400> SEQUENCE: 11
213 Lys Pro Val Ser Leu Ser Tyr Arg
214 1 5
217 <210> SEQ ID NO: 12
218 <211> LENGTH: 30
219 <212> TYPE: PRT
220 <213> ORGANISM: Artificial Sequence
222 <220> FEATURE:
223 <223> OTHER INFORMATION: Synthesized in Laboratory: SDF-1 (1-14) - (G)
224 3-SDF-1 (55-67) acid
226 <400> SEQUENCE: 12
227 Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys Arg Phe Phe Gly Gly
228 1 5 10 15
229 Gly Leu Lys Trp Ile Gln Glu Tyr Leu Glu Lys Ala Leu Asn
230 20 25 30
233 <210> SEQ ID NO: 13
234 <211> LENGTH: 31
235 <212> TYPE: PRT
236 <213> ORGANISM: Artificial Sequence
238 <220> FEATURE:
239 <223> OTHER INFORMATION: Synthesized in Laboratory: SDF-1 (1-14) - (G)
240 3-SDF-1 (55-67) acid: or CTCE0013
242 <400> SEQUENCE: 13
243 Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys Arg Phe Phe Gly Gly
244 1 5 10 15
245 Gly Gly Leu Lys Trp Ile Gln Glu Tyr Leu Glu Lys Ala Leu Asn
246 20 25 30
249 <210> SEQ ID NO: 14
250 <211> LENGTH: 30
251 <212> TYPE: PRT
252 <213> ORGANISM: Artificial Sequence
254 <220> FEATURE:
255 <223> OTHER INFORMATION: Synthesized in Laboratory: SDF-1 (1-14) - (G)
256 3-SDF-1 (55-67) amide
258 <400> SEQUENCE: 14

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/086,177A

DATE: 09/26/2002

TIME: 14:57:23

Input Set : D:\SEQLIST.txt

Output Set: N:\CRF4\09252002\J086177A.raw

259 Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys Arg Phe Phe Gly Gly  
 260 1 5 10 15

261 Gly Leu Lys Trp Ile Gln Glu Tyr Leu Glu Lys Ala Leu Asn  
 262 20 25 30

265 <210> SEQ ID NO: 15

266 <211> LENGTH: 31

267 <212> TYPE: PRT

268 <213> ORGANISM: Artificial Sequence

270 <220> FEATURE:

271 <223> OTHER INFORMATION: Synthesized in Laboratory: SDF-1 (1-14) - (G)

272 3-SDF-1 (55-67) amide: or CTCE0017

274 <400> SEQUENCE: 15

275 Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys Arg Phe Phe Gly Gly  
 276 1 5 10 15

277 Gly Gly Leu Lys Trp Ile Gln Glu Tyr Leu Glu Lys Ala Leu Asn  
 278 20 25 30

281 <210> SEQ ID NO: 16

282 <211> LENGTH: 33

283 <212> TYPE: PRT

284 <213> ORGANISM: Artificial Sequence

286 <220> FEATURE:

287 <223> OTHER INFORMATION: Synthesized in Laboratory: SDF-1 (1-17) - (G)

288 3-SDF-1 (55-67) acid

290 <400> SEQUENCE: 16

291 Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys Arg Phe Phe Glu Ser  
 292 1 5 10 15

293 His Gly Gly Gly Leu Lys Trp Ile Gln Glu Tyr Leu Glu Lys Ala Leu  
 294 20 25 30

295 Asn

299 <210> SEQ ID NO: 17

300 <211> LENGTH: 34

301 <212> TYPE: PRT

302 <213> ORGANISM: Artificial Sequence

304 <220> FEATURE:

305 <223> OTHER INFORMATION: Synthesized in Laboratory: SDF-1 (1-17) - (G)

306 3-SDF-1 (55-67) acid

308 <400> SEQUENCE: 17

309 Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys Arg Phe Phe Glu Ser  
 310 1 5 10 15

311 His Gly Gly Gly Gly Leu Lys Trp Ile Gln Glu Tyr Leu Glu Lys Ala  
 312 20 25 30

313 Leu Asn

317 <210> SEQ ID NO: 18

318 <211> LENGTH: 33

319 <212> TYPE: PRT

320 <213> ORGANISM: Artificial Sequence

322 <220> FEATURE:

323 <223> OTHER INFORMATION: Synthesized in Laboratory: SDF-1 (1-17) - (G)

324 3-SDF-1 (55-67) amide

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/086,177A

DATE: 09/26/2002  
TIME: 14:57:24

Input Set : D:\SEQLIST.txt  
Output Set: N:\CRF4\09252002\J086177A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:8; Xaa Pos. 10

Seq#:10; Xaa Pos. 9

## VERIFICATION SUMMARY

DATE: 09/26/2002

PATENT APPLICATION: US/10/086,177A

TIME: 14:57:24

Input Set : D:\SEQLIST.txt

Output Set: N:\CRF4\09252002\J086177A.raw

L:157 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:161 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:8  
L:165 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:8  
L:166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
L:191 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:195 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:10  
L:199 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:10  
L:200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0